AMENDMENTS TO SPECIFICATION

Please amend the specification as follows:

I. Please **replace** the paragraph starting on page 7, line 27, with the paragraph below:

An enable measurement circuit 114 is used to prevent readings when the injector coil is "on", or in an energized state. Circuit 114 comprises operational amplifier U1A configured as a comparator, with potentiometer resistor R8 used to set the voltage being compared to. The output of U1A is high only when the voltage across R6 is higher than the voltage at the negative input of U1A, which is set by the voltage divider circuit of potentiometer resistor R8. The voltage across R6 is low when the injector coil is "on", and thus, the enable measurement circuit 114 output is low. The voltage across R6 is higher than the voltage at the negative input of U1A when the injector coil is "off", or in a de-energized state, and thus, the enable measurement circuit 114 output is high.

II. Please **replace** the paragraph starting on page 9, line 1, with the paragraph below:

In operation, the computer monitors voltage 112, and thus coil resistance, during "off" portions of the injector cycle. A base pulse width, i.e. injector logic signal 104, for the fuel injector is calculated, based on a nominal coil resistance and plurality of computer input parameters, for example, engine air flow, the injector gain rate, system voltage, and manifold absolute pressure. As coil resistance changes, the computer refers to the table to shorten or lengthen the pulse width 104 to maintain the desired actual flow from the fuel injector. In the example discussed above, wherein the actual resistance is 10.5 Ω rather than the nominal resistance of 12 Ω, the value in the look-up table would be negative, reducing the pulse width 104 of the device to compensate for the higher anticipated flow. Conversely, the look-up value would be positive if the coil resistance becomes higher than the nominal 12 Ω.

AMENDMENTS TO SPECIFICATION

III. Please **add** the following paragraph, starting on page 1, line 12, immediately prior to the **Background of the Invention**.

INCORPORATION BY REFERENCE

Applicant incorporates by reference U.S. Patent No. 6,264,112 (B1) Engine Fuel Injector, issued to Landschoot, et al., in that a solenoid actuated fuel injector for injecting fuel into an internal combustion engine need not be fully described in detail herein.